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(54) **METHOD FOR GRANTING ACCESS TO A COMMUNICATIONS NETWORK IN EXCHANGE FOR PERFORMING TASKS ASSOCIATED WITH THE COMMUNICATIONS NETWORK**

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CPC **G06Q 20/3672** (2013.01); **G06F 9/451** (2018.02)

(58) **Field of Classification Search**
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See application file for complete search history.

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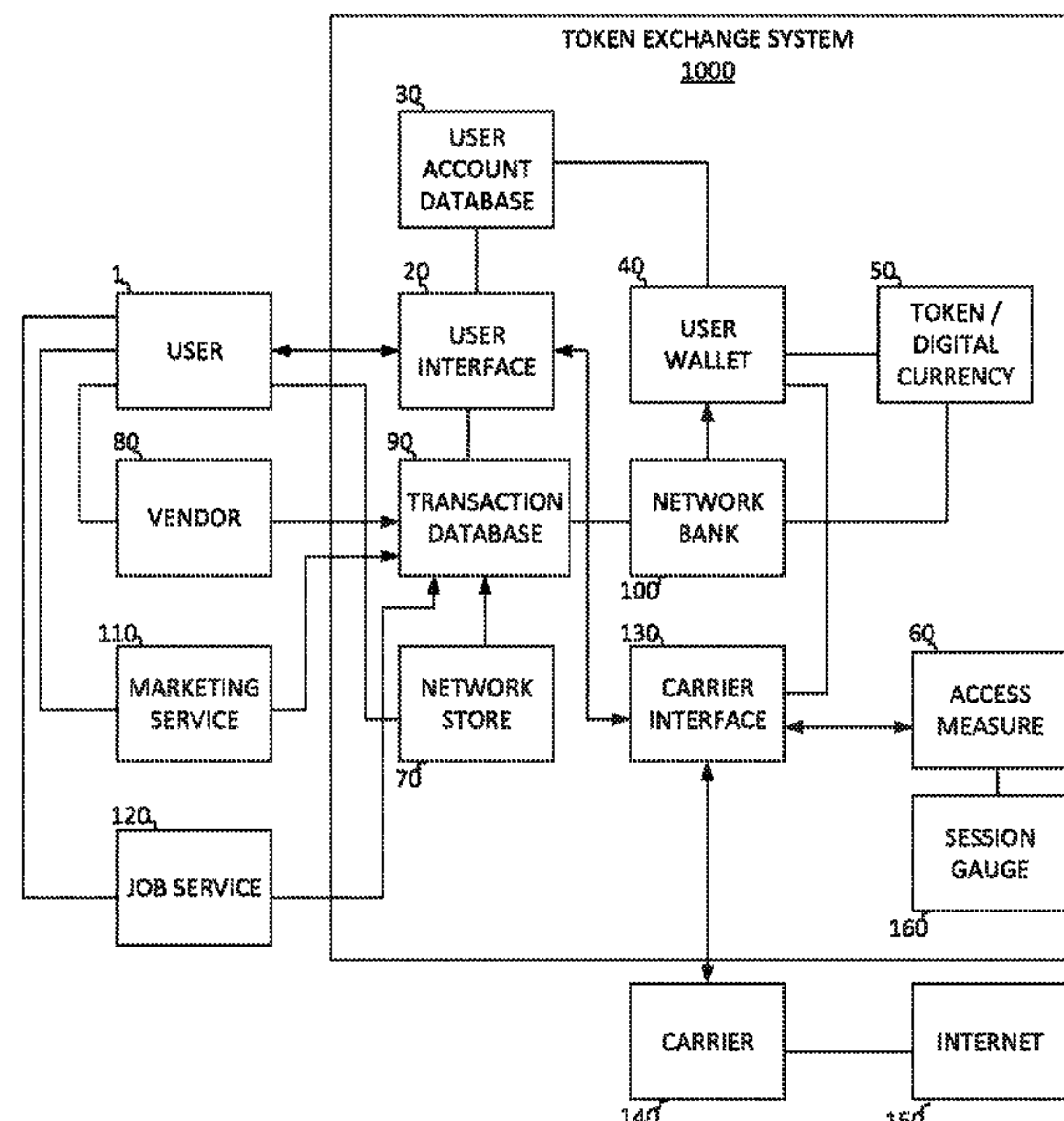
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(57) **ABSTRACT**

Token exchange systems, methods and apparatus are disclosed that allow a user to get access to a wired, wireless, or virtual network or the like by earning tokens to be used for said access, in which the user may earn tokens by making purchases or completing tasks in a token exchange system. In an exemplary embodiment, the user connects to a network, interacts with the network in order to earn tokens by making purchases through said network or completing tasks assigned by said network, and exchanges tokens for access time, whereby said user will be connected to the network or the internet for an amount of time commensurate with the amount of tokens exchanged for the access time.

20 Claims, 4 Drawing Sheets



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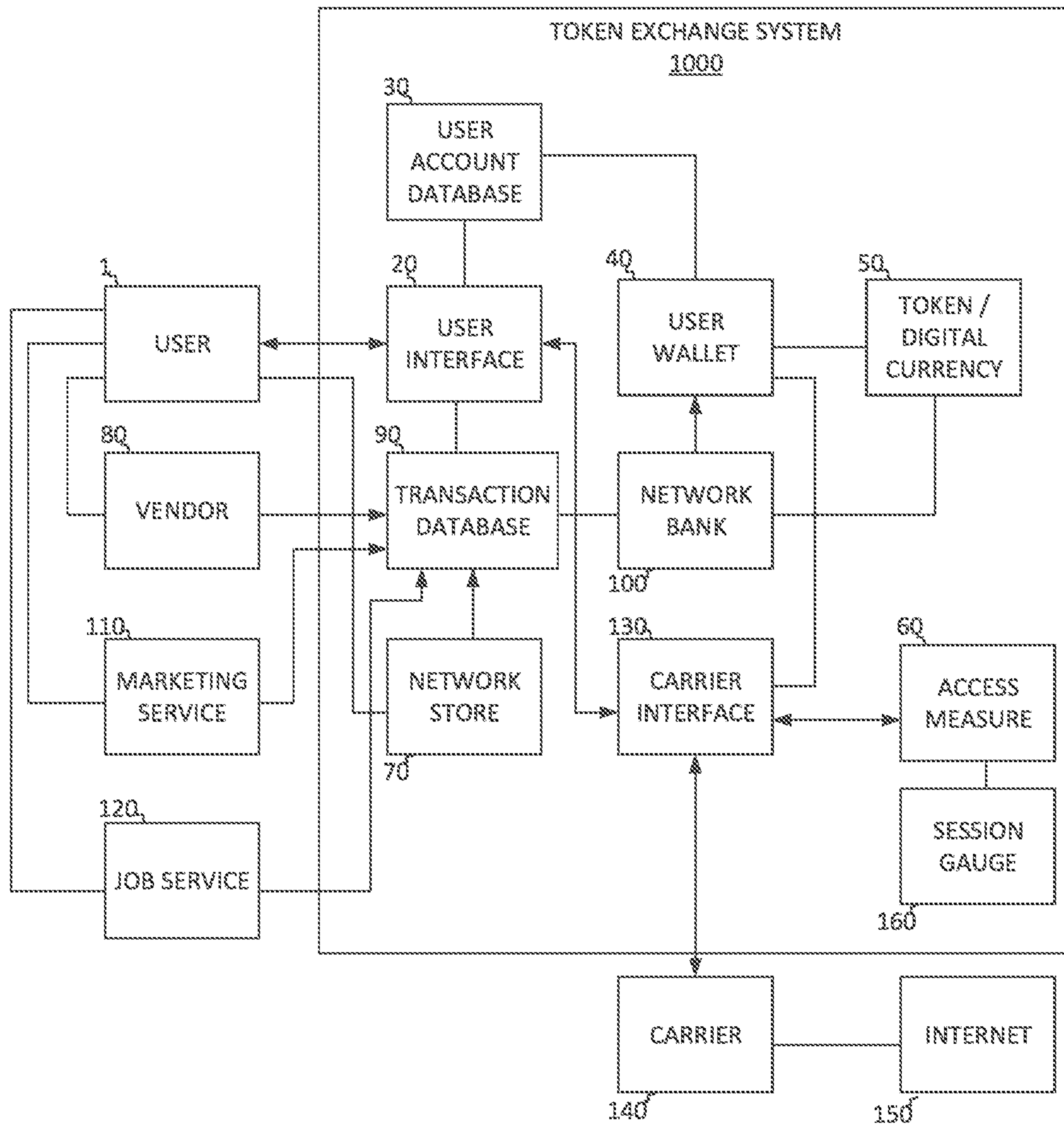


FIG. 1

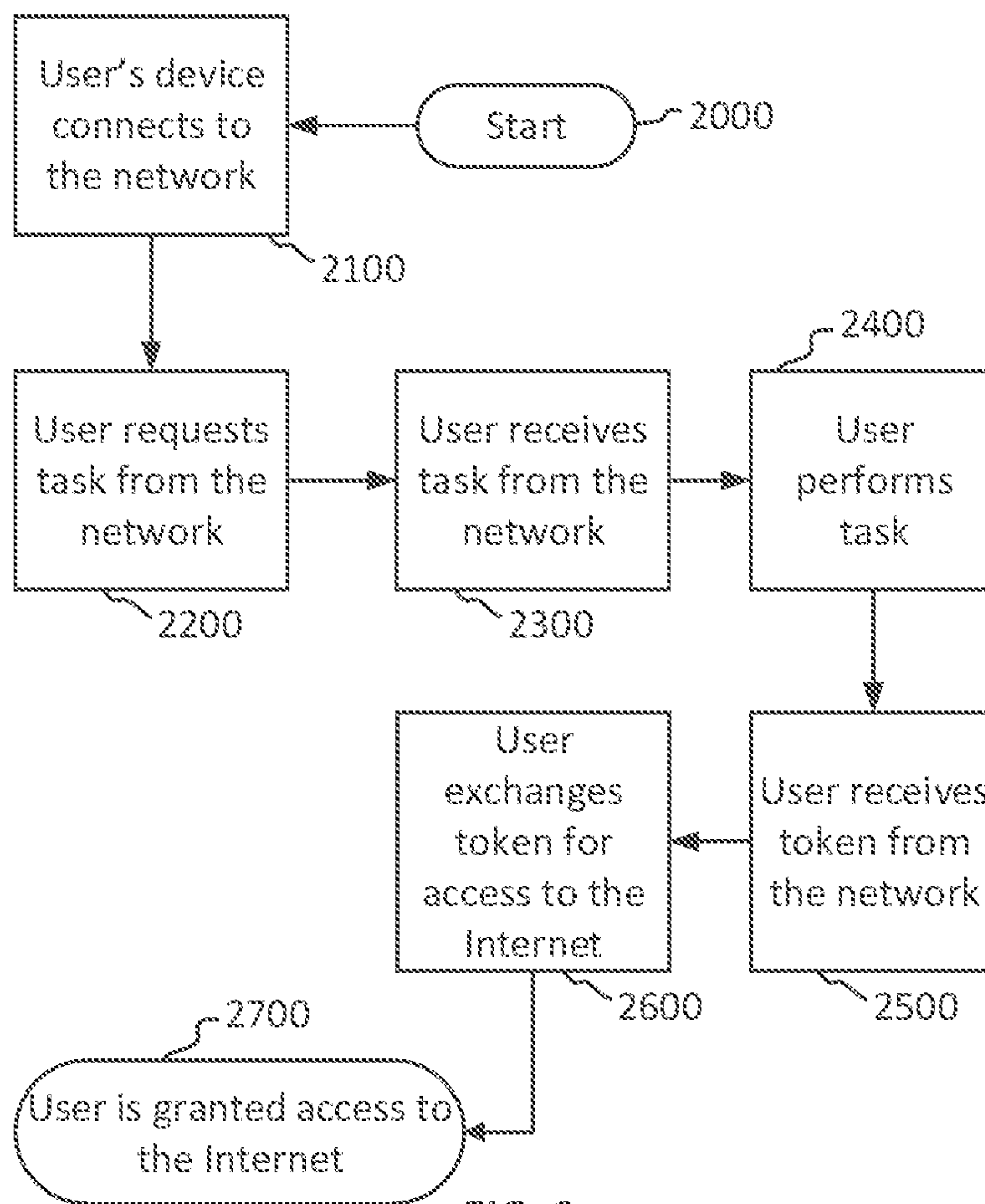


FIG. 2

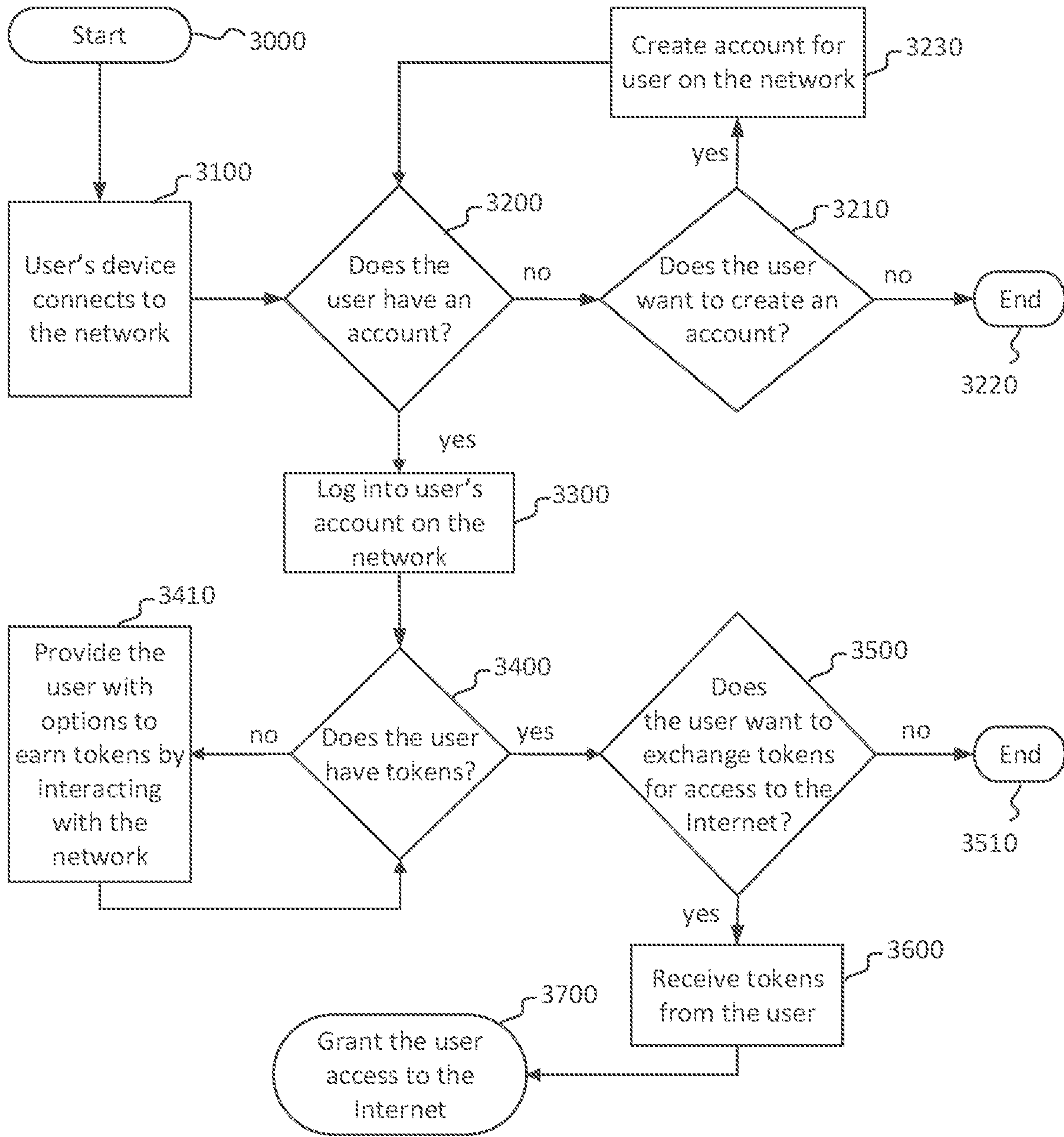


FIG.3

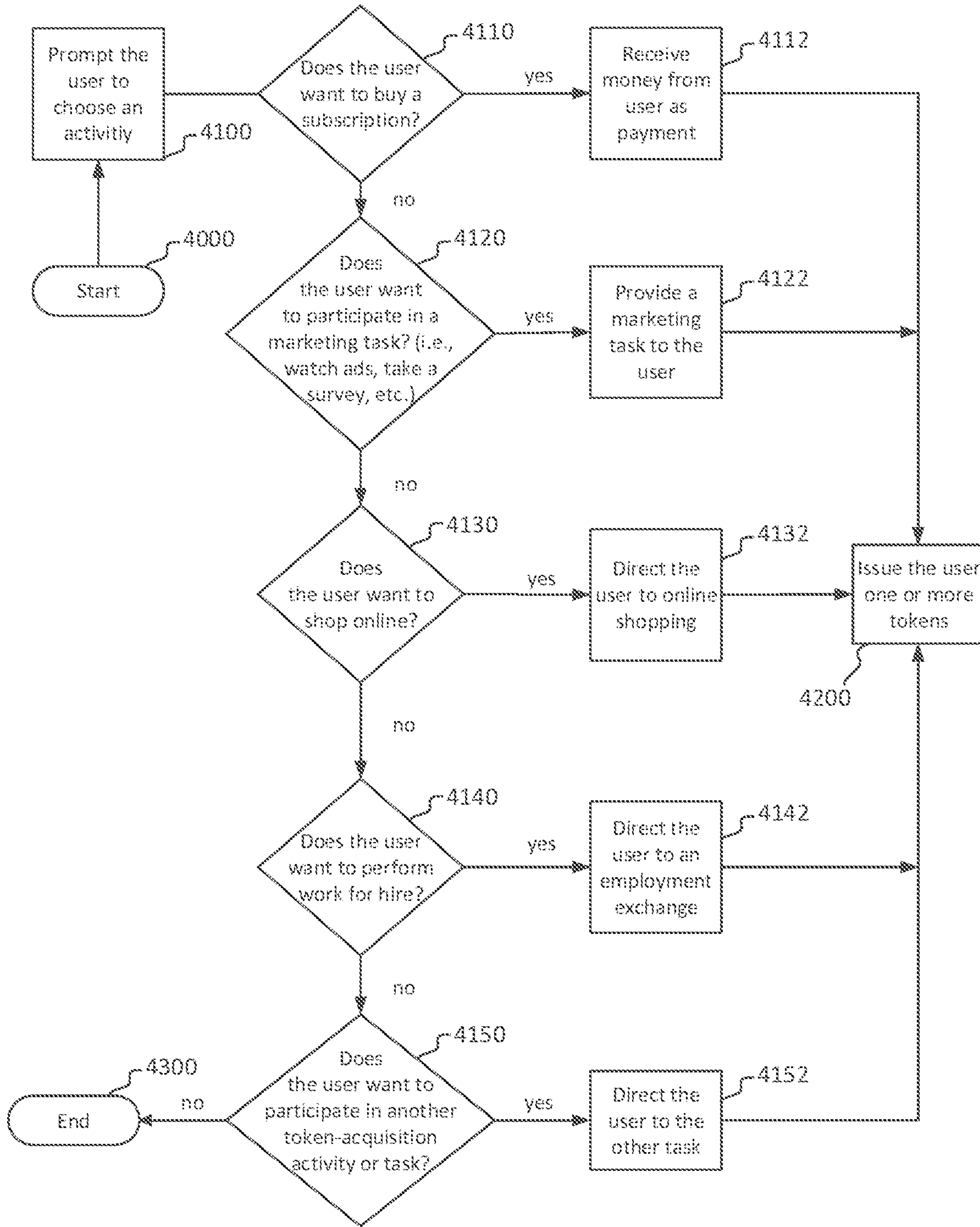


FIG. 4

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**METHOD FOR GRANTING ACCESS TO A
COMMUNICATIONS NETWORK IN
EXCHANGE FOR PERFORMING TASKS
ASSOCIATED WITH THE
COMMUNICATIONS NETWORK**

CLAIM OF PRIORITY

This application is related to and claims the benefit of U.S. Provisional Patent Application Ser. No. 62/791,438 filed on Jan. 11, 2019, the contents of which are hereby fully incorporated by reference in its entirety.

FIELD OF THE EMBODIMENTS

The field of the embodiments of the present invention relate to systems, methods and apparatus of communication network (e.g. Internet-based) payment systems, including the field of access to a wired, wireless or virtual network including the internet.

BACKGROUND OF THE EMBODIMENTS

Access to the internet has become a part of our everyday lives. Information is vital to our modern society, and access to that information usually happens over the internet. We use it for everything. We work online, shop online and even go to school online. Many people are choosing online shopping over traditional shopping due to the often-lower prices and convenience of delivery.

Most users access the internet through the network of an Internet Service Provider (ISP) that charges them a subscription fee. For some people, it is difficult to afford the expense of paying to subscribe to an Internet Service Provider.

There is currently no way to be granted access to the internet over a network by making purchases through the network or performing tasks assigned by the network that is providing the access.

Digital currency is beginning to supplement traditional currency. Online communities are adapting different methods to pay each other in services and goods, using digital tokens as a way to represent value. There is currently no digital currency that represents an amount of data or access to a network.

As described below, embodiments of the present invention include the creation, maintenance and use of user profiles in Internet usage, including targeted advertising and social media, using systems and methods different from those of the prior art systems and methods.

SUMMARY OF THE EMBODIMENTS OF THE
INVENTION

The embodiments of the present invention are directed to systems, methods and apparatus involving providing network access in exchange for credits obtained by a user in conjunction with creation and maintenance of user accounts in a user-specific networked environment.

The method and the system of this invention provide a means for a user to gain access to a network or the internet, by completing a token acquisition activity, such as making purchases through the network or performing tasks assigned by the network. Based on the purchases or performance, a token that represents an amount of data or time may be issued to the user by the network. The user can exchange that token for access to the network or the internet. The token can

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be any credit, unit, device, or digital currency used to represent an amount of time or data as a measure of accessing a network.

Further, the embodiments of the present invention represent a commodity that is to be used for various services, traded, and exchanged amongst users. In economics, a commodity is an economic good or service that has full or substantial fungibility. That is, the market treats instances of the good as equivalent or nearly so with no regard to who produced them. The commodity may have a set value (e.g. 1 token=1 GB of data) or may have a fluid value where the value is determined by supply and demand or another methodology. Regardless of the value, the embodiments of the present invention are digital tokens (e.g., a currency) backed by data as a standard.

In one embodiment of the present invention, users can freely exchange earned tokens amongst themselves.

In one embodiment of the present invention, a user can earn tokens to exchange for access to a network or the internet by making purchases through the network or through a third-party affiliate of the network.

In another embodiment of the present invention, a user can earn tokens to exchange for access to a network or the internet by participating in marketing activities within the network or through a third-party marketing service. Such activities include but are not limited to viewing advertisements or taking surveys.

In another embodiment of the invention, a user can earn tokens to exchange for access to a network or the internet by performing tasks assigned by the network or a third-party agency of the network such as work for hire.

In accordance with a first aspect of the invention, a system is disclosed, in which the system comprises a token exchange system comprising: a user interface adapted to provide a user with functionality to log into the system; a user account database adapted to interact with the user interface and manage a user account with which the user may log into the system; a user wallet adapted to include and account for a token as a credit to the user account; a transaction database adapted to manage token exchange activity of the user account; and a carrier interface adapted to provide the system with connectivity and access to the network, wherein the user interface is adapted to provide the user account with an acquisition opportunity to acquire a token in exchange for completion of a token-acquisition activity, adapted to credit the user account with a token added to the user wallet upon completion of the token-acquisition activity, adapted to provide the user account with a divestiture option to divest a token in exchange for access to the network, and adapted to divest the user account of a token removed from the user wallet upon exchanging the token for access to the network; and wherein the carrier interface is adapted to provide the user interface with connectivity and access to the network upon the user account divesting a token removed from the user wallet in exchange for access to the network.

In accordance with a second aspect of the invention, a method for is disclosed, in which the method involves providing a token exchange system, the method comprising: providing a user interface adapted to provide a user with functionality to log into the system; providing a user account database adapted to interact with the user interface and manage a user account with which the user may log into the system; managing the user account, providing a user wallet adapted to include and account for a token as a credit to the user account; accounting for any token in the user wallet; providing a transaction database adapted to manage token

exchange activity of the user account; managing token exchange activity, providing a carrier interface adapted to provide the system with connectivity and access to a network; providing the user account with an acquisition opportunity to acquire a token in exchange for completion of a token-acquisition activity; crediting the user account with a token added to the user wallet upon completion of the token-acquisition activity; providing the user account with a divestiture option to divest a token in exchange for access to the network; divesting the user account of a token removed from the user wallet upon exchanging the token for access to the network; and providing the user interface with connectivity and access to the network upon the user account divesting a token removed from the user wallet in exchange for access to the network.

In accordance with a third aspect of the invention, a method is disclosed, in which the method involves exchanging tokens to provide a user with access to a network, the method comprising: providing the user with a restricted connection to the network; providing the user with restricted access by the restricted connection to a token exchange system at which the user may acquire a token in exchange for completing a token-acquisition activity; allowing the user to acquire the token in exchange for completing the token-acquisition activity; providing the user with restricted access by the restricted connection to the token exchange system at which the user may divest a token in exchange for providing the user with less-restricted access by a less-restricted connection to the network for an amount of access per token, allowing the user to divest the token in exchange for providing the user with less-restricted access by the less-restricted connection to the network for the amount of access per token; and providing the user with less-restricted access by the less-restricted connection to the network for the amount of access per token; wherein the token-acquisition activity is selected from a group of activities consisting of making a purchase through the token exchange system and completing a task through the token exchange system, and wherein the amount of access is selected from a group of access measures consisting of blocks of time to elapse and blocks of data to be transferred.

Further aspects of the invention are set forth herein. The details of exemplary embodiments of the invention are set forth in the accompanying drawings and the description below. Other features, objects, and advantages of the invention will be apparent from the description and drawings, and from the claims.

BRIEF DESCRIPTION OF THE DRAWINGS

By reference to the appended drawings, which illustrate exemplary embodiments of this invention, the detailed description provided below explains in detail various features, advantages and aspects of this invention. As such, features of this invention can be more clearly understood from the following detailed description considered in conjunction with the following drawings, in which the same reference numerals denote the same, similar or comparable elements throughout. The exemplary embodiments illustrated in the drawings are not necessarily to scale or to shape and are not to be considered limiting of its scope, for the invention may admit to other equally effective embodiments having differing combinations of features, as set forth in the accompanying claims.

FIG. 1 shows a block diagram of an exemplary embodiment of the invention depicting an exemplary token exchange system and network, according to aspects of the invention.

FIG. 2 shows a block diagram of an exemplary method, depicting exemplary steps taken by user to access the internet through the network of FIG. 1, according to aspects of the invention.

FIG. 3 shows a block diagram of another exemplary method, depicting exemplary steps taken by user to login to the system and have the system check the user account for currency to access the internet through the network of FIG. 1, according to aspects of the invention.

FIG. 4 shows a block diagram of a further exemplary method, depicting exemplary embodiments by which a user may earn digital currency by interacting with the network of FIG. 1, according to aspects of the invention.

LISTING OF DRAWING REFERENCE NUMERALS

Below are reference numerals denoting the same, similar or comparable elements throughout the drawings and detailed description of the invention:

a Token Exchange System **1000**
 a User **1**
 a User Interface **20**
 a User Account Database **30**
 a User Wallet **40**
 a Token **50**
 an Access Measure **60**
 a Network Store **70**
 a Vendor **80**
 a Transaction Database **90**
 a Network Bank **100**
 a Marketing Service **110**
 a Job Service **120**
 a Carrier Interface **130**
 a Carrier **140**
 a Network/the Internet **150**
 a Session Clock **160**
 a Method **2000** of accessing the Internet **150** through System **1000**
 connecting **2100** a device to the network of the System **1000**
 requesting **2200** to perform a task as a token-acquisition activity
 receiving **2300** the task from the network
 performing **2400** the task
 receiving **2500** a Token **50** from the network
 divesting **2600** Token **50** in exchange for access to the Internet **150** in an Access Measure **60** relative to the Token **50**
 granting **2700** access to the Internet **150** in the amount of the Access Measure **60** obtained in exchange for the divested Token **50**
 a Method **3000** of logging in to the System **1000**, checking the User Wallet **40** for digital currency, and granting access the Internet **150** through the System **1000**
 connecting **3100** a device to the network of System **1000**
 checking **3200** if the User **1** has a User Account, and if yes, go to logging on **3300**; if not:
 asking **3210** the User **1** whether to create a User Account; if the User **1** declines to create a User Account:
 ending **3220** the process; if the User **1** agrees to create a User Account:
 creating **3230** a User Account
 logging on **3300** to a User Account of the System **1000**

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checking 3400 whether the User Waller 40 has Tokens 50 with which to access the Internet 150, and if yes, go to divesting 3500. If not: providing 3410 the User 1 with options to acquire Tokens 50 by interacting with the network, as in the Method 2000 asking 3500 the User 1 whether to divest Tokens 50 in exchange for access to the Internet 150, and if yes, go to receiving 3600; if not: ending 3510 the process, receiving 3600 the Tokens 50 from the User 1 granting 3700 the User 1 access to the Internet 150 in the amount of the Access Measure 60 obtained in exchange for, and relative to the value of divested Tokens 50 a Method 4000 of earning Digital Currency 50 by interacting with the network of System 1000 prompting 4100 the User 1 to choose from various token-acquisition activities to acquire a Token 50 asking 4110 the User 1 whether the User 1 wants to purchase a subscription, and if yes: receiving 4112 monetary payment from the User 1 issuing 4200 the User 1 one or more Tokens 50; if the User 1 chooses not to purchase a subscription: asking 4120 the User 1 if the User 1 wants to participate in a marketing task, and if yes: providing 4122 the User 1 with the marketing task issuing 4200 the User 1 one or more Tokens 50 if the User 1 chooses not to participate in a marketing task: asking 4130 the User 1 if the User 1 wants to shop online, and if yes: providing 4132 the User 1 with access to shop online issuing 4200 the User 1 one or more Tokens 50; if the User 1 chooses not to shop online: asking 4140 the User 1 if the User 1 wants to perform work for hire, and if yes: providing 4142 the User 1 with access to perform the work for hire issuing 4200 the User 1 one or more Tokens 50; if the User 1 chooses not to perform work for hire: asking 4150 the User 1 if the User 1 wants to perform some other token-acquisition activity or task, and if yes: providing 4152 the User 1 with access to perform the other token-acquisition activity or task issuing 4200 the User 1 one or more Tokens 50; if the User 1 chooses not to perform some other token-acquisition activity or task: ending 4300 the process, and the System 1000 may redirect the User 1 out of the token-acquisition portion of the User Interface 20

DETAILED DESCRIPTION OF THE EMBODIMENTS

The invention is directed to systems, methods and apparatus involving providing network access to a user in conjunction with creation and maintenance of credits, such as tokens, in a user account in a user-specific networked environment such as Internet browsing, online shopping, and social media. At a high level, a user may acquire a credit, such as a token, in exchange for completing an acquisition activity, and the user may divest the token in exchange for access to network, typically the Internet in general.

The present invention provides a user wishing to access a network or the internet with a means to do so by earning credits, such as tokens, that represent an amount of data of network bandwidth, through interactions with the network providing the access, or with third-party affiliates of the network. For instance, a user may choose to make purchases

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directly from an online store on the network application or may choose to be connected to a website or application of a third-party vendor. Further, a user may choose to make purchases directly from a physical/brick and mortar store using the same digital tokens/currency.

Once the user makes a purchase, for example, the network will credit the user's account with one or more tokens, which the user can exchange for access on the network measured in, for instance, blocks of time (e.g., 1-minute blocks), or blocks of data bandwidth (e.g., 1 MB blocks of data transferred), as measures of said access. The user would be given access to the network until the system measures that the blocks of time have elapsed or blocks of data have been transferred.

In some embodiments, the system provides additional means for a user to earn tokens, should the user not wish to make a purchase. For instance, a user can choose to view video advertisements provided by a third-party marketing service or participate in other marketing promotions, such as taking surveys, testing products, or other tasks that are part of a marketing campaign. The marketing campaign might involve the user surfing social media and 'liking' posts, re-posting posts, triggering 'views,' or posting comments, for instance.

As used in this application, the term 'token' refers to any credit, unit, device, or digital currency that can be acquired by a user in completing an acquisition activity, such as shopping through a network, and that represents a measure of access to the network, including an amount of data to be transferred during said access, or an amount of time to elapse while accessing the network or the internet.

Numerous possible embodiments of the token exchange system are envisioned. An exemplary embodiment of the invention is described below and depicted in the accompanying drawing.

Referring to the Figures, a token exchange system may interact with numerous existing systems across a distributed network, such as the Internet in general. In some embodiments, a user may access the system via a dedicated computer, kiosk, or network terminal that does not directly provide network connectivity to a user device to access the system. In some embodiments, a user may access the system via a general-purpose computer, kiosk, or network terminal that does not directly provide network connectivity to a user device to access the system. In some embodiments, a user may access the system via a general-purpose computer, kiosk, or network terminal that provides wired network connectivity to a user device to access the system. In some embodiments, a user may access the system via a general-purpose computer, kiosk, network terminal, or network access point that provides wireless network connectivity to a user device to access the system.

Inasmuch as the token exchange system itself may be a network-based system accessed by a user's own device having network connectivity, and the user's device may connect to the system through an 'open' or 'free' Internet connection, the system may connect to the user's device initially through a restricted connection that offers the user's device restricted access to the Internet. The restricted connection may restrict the bandwidth, data types, data transfer speeds, permitted IP addresses, etc., with which the user's device accesses the system. Likewise, the restricted access may restrict the user's device to accessing only network destinations permitted by the system, which may include, for instance, only permitting access to a user interface upon the user logging into the system. For example, the system may comprise a virtual private network (VPN) that manages the

user connection and access in interacting with the Internet. Once the system has logged the user into the system, and the user has divested tokens in exchange for access to the Internet, the system may remove some of the restrictions on the restricted connection (e.g., increasing data transfer speeds) to provide a less-restricted connection to the Internet. Likewise, the system may remove some of the restrictions on the restricted access (e.g., allowing the user device to navigate to permitted websites, which conceivably could exclude blacklisted sites known for malware), to provide a less-restricted access to the Internet. These restrictions of the connection and access would be in addition to the physical limitations and restrictions of the network, the network access point, network destinations, and the user's device, through the user device and the system communicate, which presumably are beyond the control of the system. For instance, the system would be prevented from providing the user device with access to network destinations requiring user authentication and permission that the user does not have.

Referring to FIG. 1, FIG. 1 shows a block diagram of an exemplary Token Exchange System 1000 to provide a User 1 with access to a Network 150, such as the Internet 150. The Network 150 may include the Internet, for example, embodying primarily the physical interconnectivity through which the other systems interact. As depicted in FIG. 1, a User 1 uses a User Interface 20 to access a User Account Database 30, and a User Wallet 40 that may include a Token 50 as a form of Digital Currency 50 to be exchanged for Access Measure 60 (e.g., time or data). FIG. 1 also depicts the interaction of a Network Store 70, a Vendor 80, and a Transaction Database 90 regarding transactions involving a Network Bank 100, a Marketing Service 110, and a Job Service 120. The Network Store 70 may be adapted to manage purchases within the System 1000, such as to offer items for purchase by the User Account, execute purchases by the User Account, and report purchase activity as token-acquisition activity to credit a Token 50 the User Account. The Transaction Database 90 may be adapted to interact with the Network Store 70, the Vendor 80, the Marketing Service 110, and the Job Service 120, to report the token-acquisition activity as a basis to credit a Token 50 to the User Account. The Network Bank 100 may be adapted to manage transactions within the system, such as receive payments from the User Account and track credits of Tokens 50 to, and debits of Tokens 50 from, the User Wallet 40 of the User Account.

FIG. 1 depicts network access provided to the User 1 through a Carrier Interface 130, a Carrier 140, the Internet 150, and a Session Gauge 160 (e.g., a clock or data meter). As depicted in FIG. 1, the System 1000 interacts with the Internet 150 through the Carrier Interface 130 that connects and communicates with the Carrier 140, which may comprise, for instance, an Internet Service Provider (ISP) or telecommunications company, and the Carrier 140 provides the System 1000 with connectivity and access to the Internet 150.

In order to access the Internet 150, the User 1 engages the User Interface 20 of the System 1000. The User 1 is prompted to enter login information that is associated with a User Account on the System. If the User 1 does not have a User Account registered with the System, the User Interface 20 provides the User 1 with an option to create one. Once created, the User's account information is stored in the User Account Database 30 and a User Wallet 40 is created for that account. When the User 1 logs into the System 1000, the User Interface 20 queries the User Wallet 40 for that

account to check if the User 1 has any Tokens 50. If the System 1000 finds that the User 1 does not have any Tokens 50, the user interface 20 provides the User 1 with options to acquire one or more Tokens 50, such as by earning Tokens performing a task as a token-acquisition activity.

In an exemplary embodiment of the System 1000, the User 1 may perform a token-acquisition activity in the form of making an online purchase through the Network Store 70 or through one of the third-party affiliates of the System 1000, also referred to as Vendors 80. The value or quantity of Tokens 50 being earned may be determined by the value, type, and/or nature of purchase being made. After a purchase has been made, the transaction is recorded in the Transaction Database 90 and the User 1 is issued Digital Currency 50 (e.g., one or more Tokens 50) from the Network Bank 100 into the User Wallet 40.

In another embodiment of the System 1000, the User 1 may choose to not make an online purchase, but still may choose to earn Tokens 50 by completing another token-acquisition activity, such as participating in a marketing campaign. In this instance, the User Interface 20 provides the User 1 the option to participate in a marketing campaign through a Marketing Service 110. Such participation can include watching a brief video, taking part in a survey, being the subject of a product test, or engaging in any other marketing interaction. The value or quantity of Tokens 50 being earned may be determined by the task being performed. Once the task is complete, the Marketing Service 110 sends a completion notice to the Transaction Database 90, and the User 1 is issued Tokens 50 into the User Wallet 40 from the Network Bank 100.

In another embodiment of the System 1000, the User 1 may choose to perform work for hire in exchange for Tokens 50. In this instance, the User Interface 20 directs the User 1 to a Job Service 120 website or application, where the User 1 can perform freelance work. Once the agreed upon work has been completed, the Job Service 120 sends a completion notice to the Transaction Database 90, and the User 1 is issued Tokens 50 into the User Wallet 40 from the Network Bank 100. The value or quantity of Tokens 50 being earned may be determined by the work being performed.

If during the query the System 1000 finds that the User has Tokens 50 in the User Wallet 40, the User 1 has the option to use the Tokens 50 that the User 1 already has, or the User 1 can choose to perform additional token-acquisition activities to earn more Tokens 50.

If the User 1 chooses to use the Tokens 50 already in the User Wallet 40, the User Interface 20 requests the User 1 to input how much Access Measure 60 (e.g., time or data) the User 1 chooses to use. The User 1 may respond with the desired amount of Access Measure 60, and the System 1000 queries the User Wallet 40 to check if the User 1 has enough Digital Currency 50 for the requested amount of Access Measure 60. If the User 1 has enough Digital Currency 50 for the requested amount of Access Measure 60, the User Interface 20 creates a session with the Carrier Interface 130 with a Session Gauge 160 designating and measuring the amount of Access Measure 60. The Carrier Interface 130 then creates a connection between the User 1 and the Carrier 140, which allows the User 1 to access the Internet 150. Upon exhaustion of the Access Measure 60 as measured by the Session Gauge 160, the connection between the User 1 and the Carrier 140 is terminated, and the User Interface 20 informs the User 1 that the session has ended.

If the User 1 does not have enough Tokens 50 in the User Wallet 40 for a requested amount of Access Measure 60, the User Interface 20 informs the User 1 of how much Access

Measure **60** is available to the User **1** based on the Tokens **50** currently in the User Wallet **40**. The User **1** is then given the options of earning more Tokens **50** or reducing the amount of Access Measure **60**.

Methods in accordance with aspects of the invention include, for instance, a method of providing the Token Exchange System **1000** of FIG. **1**; a method of acquiring Digital Currency **50** and exchanging it for access to the Internet **150**; a method of creating a User Account, checking whether it has Tokens **50**, inquiring whether a Token **50** will be exchanged for access to the Internet **150**, and granting an Access Measure **60** to the Internet **150**; and a method of providing a User **1** with options to acquire Tokens **50** and issue the Tokens **50** to the User Waller **40**.

Referring to FIG. **2**, FIG. **2** shows a block diagram of an exemplary Method **2000**, depicting exemplary steps taken by User **1** to access the Internet **150** through the network of System **1000** in FIG. **1**. The User **1** may begin by connecting **2100** a device to the network of the System **1000**. The User **1** may request **2200** to perform a task as a token-acquisition activity in the System **1000**. The User **1** may receive **2300** the task from the network, and the User **1** may perform **2400** the task. Once the task is performed, the User **1** may receive **2500** a Token **50** from the network. Once the Token **50** is credited to the User Wallet **40** for performing the task, the User **1** may divest **2600** the Token **50** in exchange for access to the Internet **150** in an Access Measure **60** relative to the value of the Token **50** exchanged. Once the Token **50** is exchanged **2600**, the User **1** is credited the Access Measure **60** and granted **2700** access to the Internet **150** in the amount of the Access Measure **60** obtained in exchange for the divested Token **50**.

Referring to FIG. **3**, FIG. **3** shows a block diagram of another exemplary Method **3000**, depicting exemplary steps taken by User **1** to login to the System **1000** and have the System **1000** check the User Account Database **30** for the User Account and the User Wallet **40** for digital currency to access the Internet **150** through the network of System **1000** in FIG. **1**. The User **1** may begin by connecting **3100** a device to the network of System **1000**, and the System **1000** may check **3200** if the User **1** has a User Account. If not, the System **1000** asks **3210** the User **1** whether to create a User Account. If the User **1** declines to create a User Account, the process may end **3220**. If the User **1** creates **3230** a User Account, the User **1** is redirected back to prompting the User **1** to log **3300** into a User Account of the System **1000**. The User **1** may log in **3300**, and the System **1000** may check **3400** whether the User Waller **40** has Tokens **50** with which to access the Internet **150**. If not, the System **1000** may prompt the User **1** to acquire Tokens **50** by providing **3410** the User **1** with options to acquire Tokens **50** by interacting with the network, as in the Method **2000** of FIG. **2**. Once Tokens **50** are acquired, the System **1000** again will check **3400** if the User **1** has Tokens **50** to divest **3500** in exchange for access to the Internet **150**. If yes, the System **1000** may prompt the User **1** to divest **3500** Tokens **50** in exchange for access to the Internet **150**. If the User **1** declines, the process may end **3510**. If the User **1** chooses to divest **3500** Tokens **50** in exchange for access, the System **1000** receives **3600** the Tokens **50** from the User **1** and grants **3700** the User **1** access to the Internet **150** in the amount of the Access Measure **60** obtained in exchange for, and relative to the value of, divested Tokens **50**.

Referring to FIG. **4**, FIG. **4** shows a block diagram of a further exemplary Method **4000**, depicting exemplary embodiments by which a User **1** may earn Digital Currency **50** by interacting with the network of System **1000** in FIG.

1. User **1** may begin after having logged into System **1000**, and having accessed a token-acquisition portion of the User Interface **20** of System **1000**. The System **1000** may prompt **4100** the User **1** to choose from various token-acquisition activities to acquire a Token **50**. For instance, the System **1000** may ask **4110** the User **1** whether the User **1** wants to purchase a subscription, and if yes, the System **1000** receives **4112** monetary payment from the User **1** and then credits the User Waller **40** by issuing **4200** the User **1** one or more Tokens **50**. In some embodiments, the Network Store **70** may be adapted to offer a purchase of a subscription as a token-acquisition activity; and the Transaction Database **90** may be adapted to interact with the Network Store **70** to report the purchase of the subscription as token-acquisition activity as a basis to credit a Token **50** to the User Account. If the User **1** chooses not to purchase a subscription, the System **1000** may ask **4120** the User **1** if the User **1** wants to participate in a marketing task, such as watch advertising or take a survey. If yes, the System **1000** provides **4122** the User **1** with the marketing task, and once the marketing task is completed, issues **4200** the User **1** one or more Tokens **50**. If the User **1** chooses not to participate in a marketing task, the System **1000** may ask **4130** the User **1** if the User **1** wants to shop online. If yes, the System **1000** provides **4132** the User **1** with access to shop online, and once the shopping is completed (which may or may require that an online purchase be made by the User **1**), the System **1000** issues **4200** the User **1** one or more Tokens **50**. If the User **1** chooses not to shop online, the System **1000** may ask **4140** the User **1** if the User **1** wants to perform work for hire. If yes, the System **1000** provides **4142** the User **1** with access to perform the work for hire, such as connecting the User **1** to a Job Service **120** that serves as an employment or consulting exchange. Once the work for hire is completed, the System **1000** issues **4200** the User **1** one or more Tokens **50**. If the User **1** chooses not to perform work for hire, the System **1000** may ask **4150** the User **1** if the User **1** wants to perform some other token-acquisition activity or task. If yes, the System **1000** provides **4152** the User **1** with access to perform the other token-acquisition activity or task, and once completed, issues **4200** the User **1** one or more Tokens **50**. If the User **1** chooses not to perform some other token-acquisition activity or task, the process may end **4300**, and the System **1000** may redirect the User **1** out of the token-acquisition portion of the User Interface **20**.

The foregoing description discloses exemplary embodiments of the invention. While the invention herein disclosed has been described by means of specific embodiments and applications thereof, numerous modifications and variations could be made thereto by those skilled in the art without departing from the scope of the invention set forth in the claims. Modifications of the above disclosed apparatus and methods that fall within the scope of the claimed invention will be readily apparent to those of ordinary skill in the art. Accordingly, other embodiments may fall within the spirit and scope of the claimed invention, as defined by the claims that follow hereafter.

In the description above, numerous specific details are set forth in order to provide a more thorough understanding of embodiments of the invention. It will be apparent, however, to an artisan of ordinary skill that the invention may be practiced without incorporating all aspects of the specific details described herein. Not all possible embodiments of the invention are set forth verbatim herein. A multitude of combinations of aspects of the invention may be formed to create varying embodiments that fall within the scope of the claims hereafter. In addition, specific details well known to

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those of ordinary skill in the art have not been described in detail so as not to obscure the invention. Readers should note that although examples of the invention are set forth herein, the claims, and the full scope of any equivalents, are what define the metes and bounds of the invention protection. 5

What is claimed is:

1. A token exchange system comprising:

a user interface adapted to:

provide a user with functionality to log into the system;
and

receive, from the user, login information associated with a user account; 10

a virtual private network (VPN) that manages a user connection to and access with the Internet;

a user account database adapted to: 15

interact with the user interface to receive the login information associated with the user account;

store the login information associated with the user account; and

generate a user wallet for the user account; 20

the user wallet adapted to:

include and account for one or more tokens as credit to the user account; and

communicate with a network bank;

the network bank adapted to manage transactions within the token exchange system; 25

a transaction database adapted to manage token exchange activity of the user account; and

a carrier interface adapted to provide the token exchange system with connectivity and access to the Internet; 30

wherein the user interface is adapted to:

query, in real-time, the user wallet to determine if the user has the one or more tokens;

in response to a determination, in real-time, that the user has at least one token of the one or more tokens, prompting the user, in real-time, to divest a quantity of the one or more tokens in exchange for access to the Internet for an amount of time; and 35

in response to a determination, in real-time, that the user fails to have any tokens of the one or more tokens, prompting the user, in real-time, with an option to 40

acquire the quantity of the one or more tokens by performing a token-acquisition activity, wherein the token-acquisition activity is selected from the group consisting of: performance of work for hire, online shopping, participation in a marketing activity, and a purchase of a subscription; 45

determining, in real-time, performance of the token-acquisition activity; and

supplying, in real-time, the quantity of the one of the one or more tokens to the user wallet; and 50

wherein the carrier interface is adapted to:

receive, in real-time, the divestment from the user;
connect, in real-time, the user to the Internet via the 55

VPN for the amount of time associated with the quantity of the one or more tokens; and

remove, in real-time, the quantity of the one or more tokens from the user wallet.

2. The token exchange system of claim 1, further comprising: 60

an access measure by which the access by the user account to a network is measured; and,

a session gauge adapted to measure the access by the user account to the network;

wherein the session gauge is adapted to permit the user account to access the network in accordance with the access measure obtained by the user account in 65

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exchange for the token, and is adapted to terminate access to the network by the user account upon exhaustion of the access measure.

3. The token exchange system of claim 2, wherein:

the access measure is selected from a group consisting of: an access time, comprising a block of time accessing the network; and,

an access data, comprising a block of data transferred in accessing the network;

the session gauge is adapted to measure how much time elapses during access to the network by the user account; and,

the session gauge is adapted to measure how much data are transferred during access to the network by the user account. 15

4. The token exchange system of claim 1, wherein the network bank is adapted to receive payments from the user account and track credits of the one or more tokens to, and debits of the one or more tokens from, the user account.

5. The token exchange system of claim 1, further comprising:

a network store adapted to manage purchases within the token exchange system;

wherein the network store is adapted to offer items for purchase by the user account, execute purchases by the user account, and report purchase activity as the token-acquisition activity to credit a token the user account. 25

6. The token exchange system of claim 5, wherein:

the network store is adapted to offer the purchase of the subscription as the token-acquisition activity; and

the transaction database is adapted to interact with the network store to report the purchase of the subscription as the token-acquisition activity as a basis to credit a token to the user account. 30

7. The token exchange system of claim 1, wherein:

the token-acquisition activity includes the participation in the marketing activity; and

the transaction database is adapted to interact with a third-party marketing service to report the participation in the marketing activity as the token-acquisition activity as a basis to credit a token to the user account. 35

8. The token exchange system of claim 1, wherein:

the token-acquisition activity includes the online shopping; and

the transaction database is adapted to interact with a third-party vendor to report the online shopping as the token-acquisition activity as a basis to credit a token to the user account. 40

9. The token exchange system of claim 1, wherein:

the token-acquisition activity includes the performance of work for hire; and

the transaction database is adapted to interact with a third-party job service to report the performance of the work for hire as the token-acquisition activity as a basis to credit a token to the user account. 45

10. A method for providing a token exchange system, the method comprising:

providing a user interface adapted to:

provide a user with functionality to log into the system;
and

receive, from the user, login information associated with a user account;

providing a virtual private network (VPN) to manage a user connection to and access with the Internet;

providing a user account database adapted to:

interact with the user interface to receive the login information associated with the user account; 65

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store login information associated with the user account; and
 generate a user wallet for the user account;
 providing the user wallet adapted to:
 include and account for one or more tokens as credit to the user account; and
 communicate with a network bank;
 the network bank adapted to manage transactions within the token exchange system;
 providing a transaction database adapted to manage token exchange activity of the user account;
 providing a carrier interface adapted to provide the token exchange system with connectivity and access to the Internet;
 querying, in real-time by the user interface, the user wallet to determine if the user has the one or more tokens;
 in response to a determination, in real-time by the user interface, that the user has at least one token of the one or more tokens,
 prompting the user, in real-time, to divest a quantity of the one or more tokens in exchange for access to the Internet for an amount of time;
 receiving, by the carrier interface in real-time, the divestment from the user;
 connecting, by the carrier interface in real-time, the user to the Internet via the VPN for the amount of time associated with the quantity of the one or more tokens; and
 removing, by the carrier interface in real-time, the quantity of the one or more tokens from the user wallet;
 in response to a determination, in real-time by the user interface, that the user fails to have any tokens of the one or more tokens,
 prompting the user, in real-time by the user interface, with an option to acquire the quantity of the one or more tokens by performing a token-acquisition activity, wherein the token-acquisition activity is selected from the group consisting of: performance of work for hire, online shopping, participation in a marketing activity, and a purchase of a subscription;
 determining, in real-time by the user interface, performance of the token-acquisition activity; and
 supplying, in real-time by the user interface, the quantity of the one or more tokens to the user wallet.

11. The method of claim **10**, further comprising:
 providing an access measure by which the access by the user account to a network is measured;
 providing a session gauge adapted to measure the access by the user account to the network;
 measuring the access by the user account to the network; and,
 terminating the access to the network by the user account;
 wherein the session gauge is adapted to permit the user account to access the network in accordance with the access measure obtained by the user account in exchange for the token, and is adapted to terminate access to the network by the user account upon exhaustion of the access measure.

12. The method of claim **11**, wherein:
 the access measure includes an access time, comprising a block of time accessing the network; and,
 the session gauge is adapted to measure how much time elapses during access to the network by the user account;
 the method further comprising:

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measuring how much time the user account accesses the network; and,
 terminating the access to the network when the access time is exhausted.

13. The method of claim **12**, wherein:
 the access measure includes an access data, comprising a block of data transferred in accessing the network; and,
 the session gauge is adapted to measure how much data are transferred during access to the network by the user account;
 the method further comprising:
 measuring how much data are transferred as the user account accesses the network; and,
 terminating the access to the network when the access data is exhausted.

14. The method of claim **10**, wherein the network bank is further configured to:
 manage transactions within the token exchange system; and
 receive payments from the user account and track credits of the one or more tokens to, and debits of the one or more tokens from, the user account.

15. The method of claim **10**, further comprising:
 providing a network store adapted to manage purchases within the system; and,
 managing purchases within the system;
 wherein the network store is adapted to offer items for purchase by the user account, execute purchases by the user account, and report purchase activity as the token-acquisition activity to credit a token to the user account.

16. The method of claim **15**, wherein:
 the network store is adapted to offer the purchase of the subscription as the token-acquisition activity; and,
 the transaction database is adapted to interact with the network store to report the purchase of the subscription as the token-acquisition activity as a basis to credit a token to the user account.

17. The method of claim **10**, wherein:
 the token-acquisition activity includes the participation in the marketing activity; and,
 the transaction database is adapted to interact with a third-party marketing service to report the participation in the marketing activity as the token-acquisition activity as a basis to credit a token to the user account.

18. The method of claim **10**, wherein:
 the token-acquisition activity includes the online shopping; and,
 the transaction database is adapted to interact with a third-party vendor to report the online shopping as the token-acquisition activity as a basis to credit a token to the user account.

19. The method of claim **10**, wherein:
 the token-acquisition activity includes the performance of the work for hire; and,
 the transaction database is adapted to interact with a third-party job service to report the performance of the work for hire as the token-acquisition activity as a basis to credit a token to the user account.

20. A method of exchanging tokens to provide a user with access to the Internet via a virtual private network (VPN), the method comprising:
 providing the user with a restricted connection to the Internet via the VPN;
 providing the user with restricted access by the restricted connection to a token exchange system at which the user may acquire a token in exchange for completing a token-acquisition activity;

allowing the user to acquire the token in exchange for
completing the token-acquisition activity;
providing the user with restricted access by the restricted
connection to the token exchange system at which the
user may divest a token in exchange for providing the 5
user with less-restricted access by a less-restricted
connection to the Internet via the VPN for an amount
of access per token;
allowing the user to divest the token in exchange for
providing the user with less-restricted access by the 10
less-restricted connection to the Internet via the VPN
for the amount of access per token; and
providing the user with less-restricted access by the
less-restricted connection to the Internet via the VPN or 15
the amount of access per token;
wherein the token-acquisition activity is selected from a
group of activities consisting of making a purchase
through the token exchange system and completing a
task through the token exchange system; and
wherein the amount of access is selected from a group of 20
access measures consisting of blocks of time to elapse
and blocks of data to be transferred.

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